Notice of Allowability	Application No.	Applicant(s)	
	10/016,642	GOLAN ET AL.	
	Examiner	Art Unit	
	Thai D. Hoang	2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Application filed on 10/30/2001*.

2. ☒ The allowed claim(s) is/are *1, 7-23, 29-45 have been renumbered as 1-35 respectively*.

3. ☒ The drawings filed on *30 October 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Samuel H. Dworetsky on August 25, 2005. Examiner requested Applicant's Representaive combined limitations recited in claim 6 and 28 into claims 1 and 23 respectively in order to allow the present Patent Application. Applicant's Representative egreed and authorized to make Examiner Amendment for allowance.

The application has been amended as follows:

Claim 1: (currently amended) A method for a capacity planning server in a packet network to calculate access router to access router traffic matrixes by using ingress and egress files derived from flow records, each ingress file comprising a plurality of ingress records in which each ingress record represents an incoming flow, each egress file comprising a plurality of egress records in which each egress record represents an outgoing flow, the method comprising the steps of:

identifying ingress and egress records in the ingress and egress files that match; and

calculating a traffic matrix using the matched ingress and egress records;

wherein the step of calculating a traffic matrix further comprises the steps of:

creating a hash set for each egress file;

creating a key value by concatenating source addresses and destination addresses from an egress record;

adding the key value to the hash set;

creating a key value by concatenating source addresses and destination addresses from an ingress record; and

performing a test to determine if the key value for an ingress record exists in a hash set for an egress file.

Claims 2-6: Canceled.

Claim 7: line 1, the statement "claim 6" has been changed to –claim 1--.

Claim 23: (currently amended) A method for a capacity planning server in a packet network to calculate service node to service node traffic matrixes by using ingress and egress files derived from flow records, each ingress file comprising a plurality of ingress records in which each ingress record represents an incoming flow, each egress file comprising a plurality of egress records in which each egress record represents an outgoing flow, the method comprising the steps of:

identifying ingress and egress records in the ingress and egress files that match; and

calculating a traffic matrix using the matched ingress and egress records;

wherein the step of calculating a traffic matrix further comprises the steps of:

creating a hash set for each egress file;

creating a key value by concatenating source addresses and destination addresses from an egress record;

adding the key value to the hash set;

creating a key value by concatenating source addresses and destination addresses from an ingress record; and

performing a test to determine if the key value for an ingress record exists in a hash set for an egress file.

Claims 24-28: Canceled.

Claim 29: line 1, the statement "claim 28" has been changed to --claim 23--.

Allowable Subject Matter

Claims 1, 7-23, 29-45 have been renumbered as 1-35 respectively.

Claims 1-35 are allowed.

The following is an examiner's statement of reasons for allowance:

Venkatachary et al, US Patent No. 6,212,184, discloses "Fast scaleable methods and devices for layer four switching: and Dor et al. US Patent No. US 6,895,421 B1 disclose "Method and apparatus for effectively performing linear transformations". Both Venkatachary et al. and Dor et al. do not teach or fairly suggest the following features, which are recited in each independent claim of the present application:

A method for a capacity planning server in a packet network to calculate access router to access router traffic matrixes by using ingress and egress files derived from flow records, each ingress file comprising a plurality of ingress records in which each ingress record represents an incoming flow, each egress file comprising a plurality of egress records in which each egress record represents an outgoing flow, the method comprising the steps of:

identifying ingress and egress records in the ingress and egress files that match; and

calculating a traffic matrix using the matched ingress and egress records;

wherein the step of calculating a traffic matrix further comprises the steps of performing a test to determine if a key value for an ingress record exists in a hash set for an egress file as recited in claims 1 and 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The following references are cited to further show the state of the art with respect to the application:

US Patent No. 5862338, Walker et al. discloses "A Polling system that determines the status of network ports and that stores values indicative thereof."

The following publications are cited to further show the state of the art with respect to the application:

Internet Draft Category: Informational Document: <draft-ietf-psamp-framework-06.txt>; www.ietf.org/proceedings/04aug/ I-D/draft-ietf-psamp-framework-06.txt.

Internet Draft Document: <draft-ietf-psamp-sample-tech-03.txt>; www.ietf.org/proceedings/03nov/ I-D/draft-ietf-psamp-sample-tech-03.txt

Poh, E.C.K.; Hong Tat Ewe; "IPv6 Packet Classification Based on Flow Label, Source and Destination Addresses" Information Technology and Applications, 2005. ICITA 2005. Third International Conference on Vol. 2, 04-07, July 2005, pp 659 – 664.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

KWANG BIN YAO
PRIMARY EXAMINER